

10/532570

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/037839 A1

(51) International Patent Classification⁷: C07F 17/00,
C08F 10/00

[FR/FR]; 9, square Marcel Forestier, F-60200 Compiègne
(FR). LELONG, Jean-François [FR/FR]; 18, rue des
marais de nervaise, F-60170 Tracy-le-Mont (FR).

(21) International Application Number:

PCT/EP2003/011680

(22) International Filing Date: 22 October 2003 (22.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

102 50 061.4	25 October 2002 (25.10.2002)	DE
60/432,202	10 December 2002 (10.12.2002)	US

(71) Applicant (for all designated States except US): BASELL
POLYOLEFINE GMBH [DE/DE]; Brühler Strasse 60,
50389 Wesseling (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DAMRAU,
Hans-Robert-Hellmuth [DE/DE]; Bodanstrasse 21,
78462 Konstanz (DE). MÜLLER, Patrik [DE/DE]; Am
Weidenschlag 128, 67071 Ludwigshafen (DE). GARCIA,
Valerie [FR/FR]; 20, rue Evette, F-60200 Compiègne
(FR). SIDOT, Christian [FR/FR]; 12, avenue de Land-
shut, F-60200 Compiègne (FR). TELLIER, Christian

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

WO 2004/037839 A1

(54) Title: RACEMOSELECTIVE PREPARATION OF ISOLABLE ANSA-METALLOCENE BIPHENOXIDE COMPLEXES

(57) Abstract: The invention relates to a process for preparing racemic metallocene biphenoxide complexes by reacting bridged transition metal complexes with cyclopentadienyl derivatives of alkali metals or alkaline earth metals and heating the reaction mixture obtained in this way to a temperature in the range from -78 to 250°C, to the corresponding metallocene biphenoxide complexes and to their use as catalysts or as constituents of catalysts for the polymerization of olefinically unsaturated compounds or as reagents or catalysts in stereoselective synthesis.